

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530349

Luminaire Tested: **GALN-SA5C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21025 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

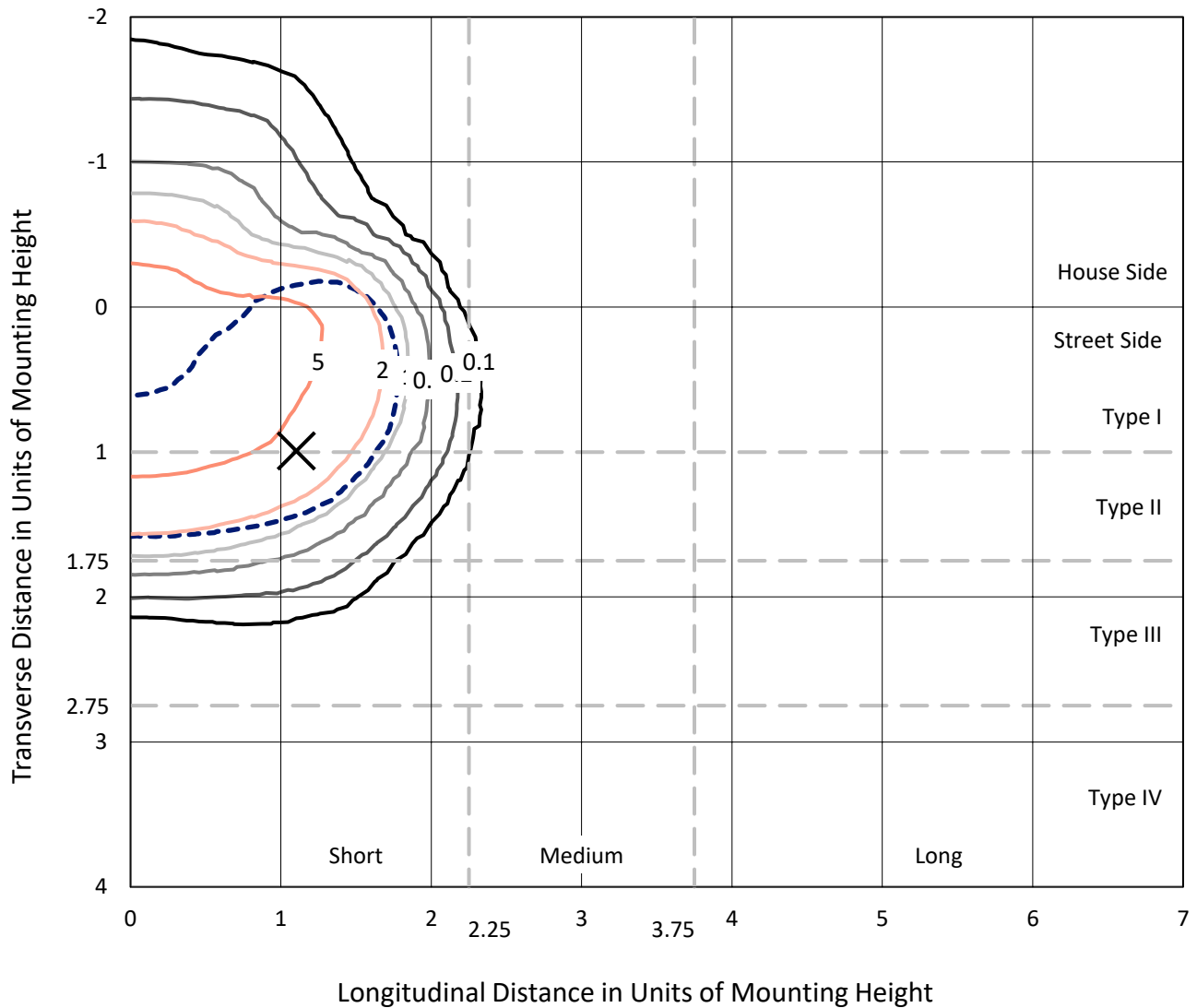
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

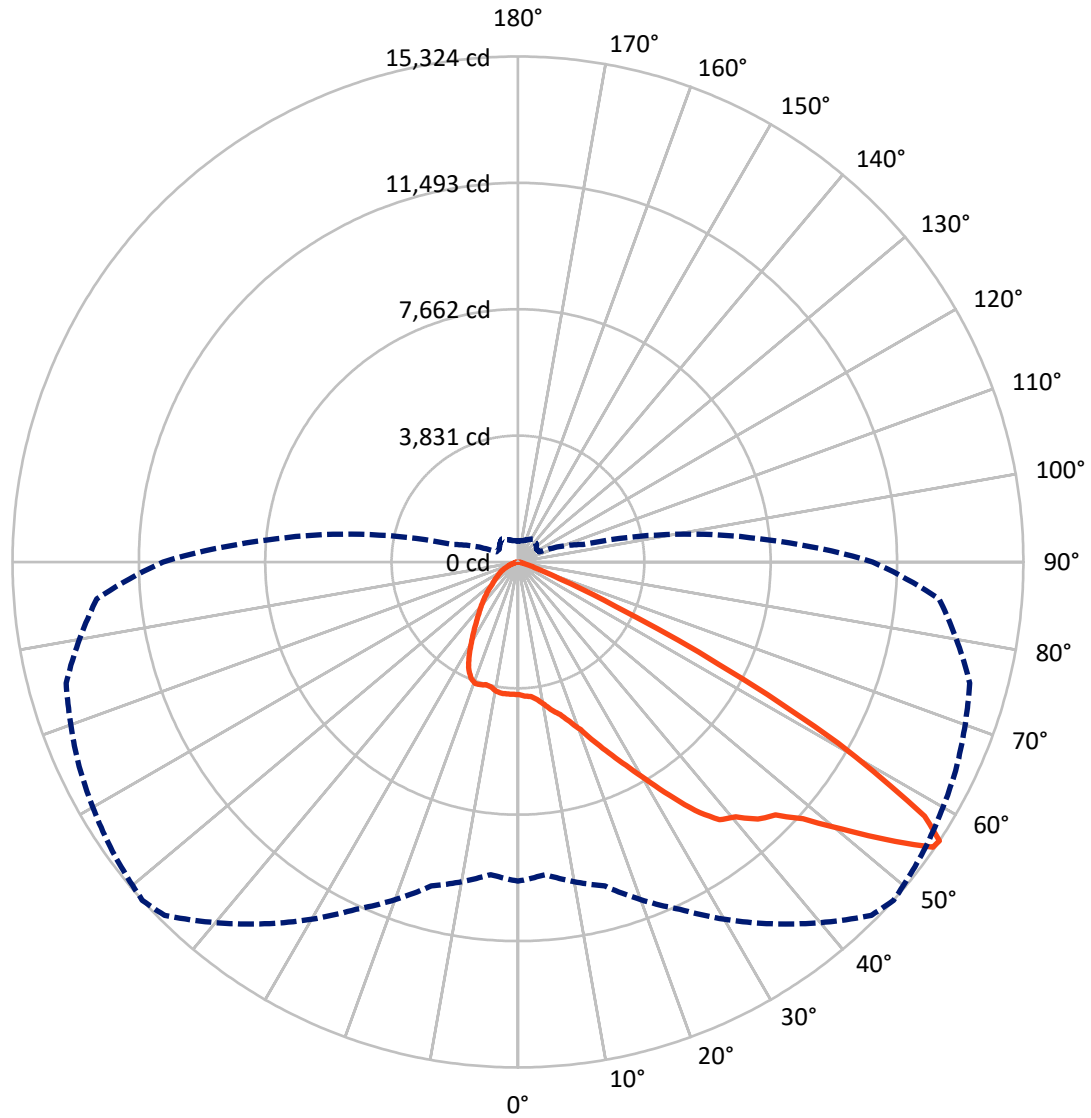
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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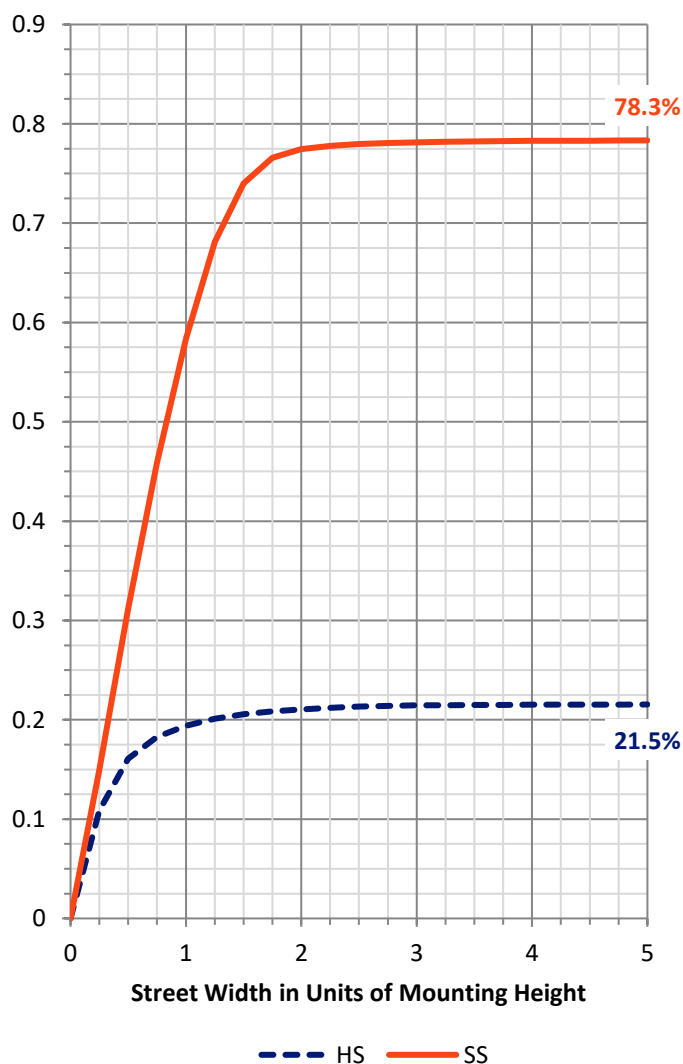
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4572.5	0.0	4572.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16452.5	0.0	16452.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	21025.0	0.0	21025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.2	1.9
10°-20°	1250.1	5.9
20°-30°	2267.5	10.8
30°-40°	3561.8	16.9
40°-50°	5196.0	24.7
50°-60°	6260.2	29.8
60°-70°	1832.9	8.7
70°-80°	232.5	1.1
80°-90°	32.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21025.0	100.0
0°-180°	21025.0	100.0

Coefficient of Utilization

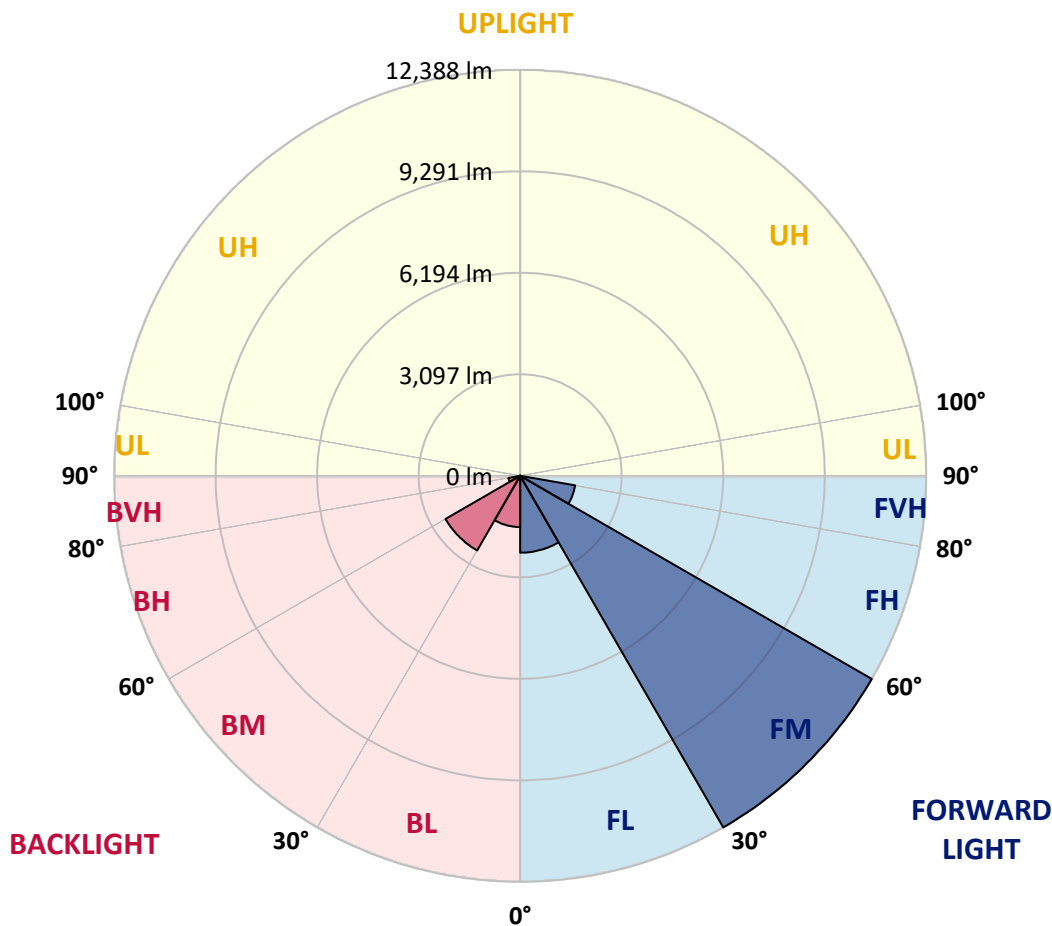


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2346.0	11.2			
FM (30°-60°)	12388.0	58.9			
FH (60°-80°)	1702.1	8.1			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1562.9	7.4	B3/2500		
BM (30°-60°)	2630.1	12.5	B3/5000		
BH (60°-80°)	363.3	1.7	B1/500		G1/500
BVH (80°-90°)	16.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8
2.5°	4088.5	4069.4	4069.4	4038.8	4073.2	4057.9	4069.4	4031.1	4069.4	4012.0	4057.9
5°	4107.7	4111.5	4096.2	4115.3	4115.3	4138.3	4100.0	4134.5	4153.6	4111.5	4092.3
7.5°	4207.2	4214.9	4211.0	4195.7	4226.3	4222.5	4218.7	4191.9	4199.5	4184.2	4161.3
10°	4402.4	4398.6	4417.7	4379.5	4356.5	4383.3	4390.9	4348.8	4318.2	4306.7	4234.0
12.5°	4685.7	4639.8	4613.0	4574.7	4586.2	4547.9	4616.8	4544.1	4528.8	4459.9	4387.1
15°	4915.4	4907.8	4911.6	4850.3	4781.4	4796.7	4796.7	4758.5	4735.5	4651.3	4547.9
17.5°	5386.3	5225.5	5259.9	5183.4	5126.0	5122.1	5087.7	5095.3	5034.1	4858.0	4701.0
20°	5753.8	5684.9	5631.3	5501.1	5413.1	5439.9	5424.6	5386.3	5367.1	5137.4	4915.4
22.5°	6083.0	6106.0	6017.9	5983.5	5861.0	5872.5	5903.1	5868.6	5723.2	5485.8	5156.6
25°	6546.2	6519.4	6400.8	6358.6	6243.8	6285.9	6404.6	6377.8	6285.9	5857.1	5344.2
27.5°	7093.7	7001.8	7024.8	6833.3	6722.3	6841.0	6982.6	7116.6	6856.3	6293.6	5566.2
30°	7480.3	7384.6	7376.9	7369.3	7342.5	7480.3	7644.9	7767.4	7556.9	6730.0	5933.7
32.5°	7671.7	7694.7	7759.8	7736.8	7970.3	8253.6	8425.9	8602.0	8337.8	7442.0	6419.9
35°	8180.9	8035.4	8180.9	8196.2	8437.4	9038.4	9256.6	9677.7	9612.6	8448.8	7013.3
37.5°	8479.5	8468.0	8487.1	8632.6	8866.1	9608.8	9918.9	10244.3	10121.8	9053.7	7752.1
40°	8973.3	9003.9	9000.1	9111.1	9367.6	10037.5	10163.9	10428.0	10439.5	9892.1	8839.3
42.5°	9765.7	9643.2	9562.8	9677.7	10037.5	10408.9	10661.5	10607.9	10986.9	10910.4	10236.6
45°	10477.8	10550.5	10431.9	10623.3	10753.4	10952.5	10944.8	11059.7	11542.0	11905.7	11289.4
47.5°	11143.9	11189.8	11247.3	11377.4	11660.7	11691.3	11626.3	11576.5	12242.6	12617.8	12104.8
50°	11542.0	11584.1	11852.1	12085.6	12613.9	12682.8	12721.1	12594.8	13046.5	13088.6	12874.2
52.5°	11434.8	11480.8	11855.9	12625.4	13467.6	14099.3	13984.4	13770.0	13743.2	13907.9	13586.3
55°	10485.4	10443.3	10960.1	12158.4	13735.6	15251.6	15266.9	15041.0	14608.4	14497.4	13479.1
56°	9677.7	9513.1	10171.5	11618.6	13391.1	15152.0	15324.3	15083.1	14677.3	14179.7	12816.8
57.5°	7928.2	8085.2	8739.8	9938.0	12200.5	14436.2	14535.7	14478.3	14172.0	13337.5	11277.9
60°	4371.8	4647.4	5225.5	6691.7	8686.2	11078.8	11159.2	11626.3	11683.7	10213.6	7759.8
62.5°	1856.7	1826.1	2427.1	3506.6	4946.0	6687.9	6837.2	7315.7	7403.7	5887.8	3893.3
65°	754.2	796.3	1098.7	1764.8	2614.7	3047.2	3257.8	3414.8	3705.7	2430.9	1435.6
67.5°	497.7	493.8	647.0	1006.8	1408.8	1359.0	1359.0	1435.6	1328.4	991.5	620.2
70°	356.0	367.5	463.2	696.7	876.7	650.8	624.0	597.2	677.6	654.6	501.5
72.5°	233.5	248.8	310.1	417.3	455.6	356.0	356.0	428.8	558.9	528.3	409.6
75°	153.1	157.0	191.4	241.2	225.9	183.8	202.9	287.1	405.8	390.5	290.9
77.5°	103.4	107.2	130.2	157.0	126.3	103.4	111.0	145.5	199.1	199.1	153.1
80°	38.3	42.1	53.6	49.8	57.4	72.7	80.4	99.5	118.7	118.7	103.4
82.5°	0.0	3.8	11.5	26.8	42.1	57.4	65.1	76.6	88.0	99.5	95.7
85°	0.0	3.8	11.5	19.1	30.6	34.5	38.3	26.8	23.0	23.0	19.1
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8	4015.8
2.5°	4015.8	4012.0	4012.0	4000.5	4023.4	4012.0	4019.6	4015.8	3966.0	4004.3	3977.5
5°	4057.9	4084.7	4042.6	4034.9	4004.3	4015.8	4015.8	3977.5	4012.0	4008.1	4000.5
7.5°	4165.1	4119.1	4073.2	4027.3	4019.6	4008.1	3966.0	3950.7	3977.5	3946.9	3992.8
10°	4211.0	4218.7	4149.8	4088.5	4031.1	3950.7	3893.3	3858.8	3816.7	3862.7	3889.5
12.5°	4421.6	4345.0	4226.3	4130.6	3935.4	3855.0	3797.6	3782.3	3855.0	3870.3	3843.5
15°	4494.3	4482.8	4329.7	4115.3	3912.4	3816.7	3828.2	3797.6	3805.2	3767.0	3774.6
17.5°	4643.6	4513.5	4333.5	4065.6	3908.6	3885.6	3816.7	3694.2	3625.3	3594.7	3621.5
20°	4808.2	4681.9	4421.6	4084.7	3943.0	3881.8	3655.9	3506.6	3365.0	3288.4	3292.3
22.5°	4953.7	4796.7	4383.3	4092.3	3973.7	3721.0	3449.2	3154.4	2978.3	2859.7	2863.5
25°	5129.8	4907.8	4398.6	4107.7	3893.3	3464.5	3074.0	2786.9	2576.4	2496.0	2522.8
27.5°	5229.3	4976.7	4482.8	4142.1	3682.7	3100.8	2679.7	2411.8	2289.3	2251.0	2247.2
30°	5527.9	5129.8	4586.2	4073.2	3330.5	2710.4	2319.9	2155.3	2036.6	2002.1	2009.8
32.5°	5972.0	5409.2	4720.2	3893.3	2970.7	2362.0	2086.4	1963.9	1852.8	1787.8	1780.1
35°	6343.3	5887.8	4861.8	3613.8	2553.4	2094.0	1921.8	1768.6	1600.2	1527.5	1508.3
37.5°	7051.5	6427.6	4831.2	3192.7	2155.3	1895.0	1745.7	1558.1	1412.6	1313.1	1301.6
40°	7993.3	7059.2	4681.9	2679.7	1860.5	1718.9	1558.1	1378.2	1198.2	1114.0	1106.4
42.5°	9137.9	7832.5	4410.1	2159.1	1565.7	1542.8	1397.3	1190.6	1029.8	968.5	972.4
45°	10068.2	8494.8	4134.5	1734.2	1347.5	1370.5	1244.2	1048.9	937.9	888.1	888.1
47.5°	10895.1	8942.7	3835.9	1431.7	1144.6	1198.2	1087.2	972.4	876.7	838.4	830.7
50°	11691.3	9398.2	3537.3	1159.9	976.2	1029.8	1018.3	926.4	849.9	803.9	807.8
52.5°	12189.0	9471.0	3158.3	949.4	853.7	914.9	953.2	869.0	784.8	758.0	750.3
55°	11580.3	8533.1	2450.0	781.0	723.5	803.9	876.7	781.0	715.9	669.9	666.1
56°	10761.1	7629.6	2048.1	719.7	685.2	773.3	849.9	746.5	673.8	647.0	627.8
57.5°	9111.1	6243.8	1512.1	639.3	635.5	719.7	807.8	712.0	627.8	604.9	604.9
60°	5681.1	3514.3	914.9	535.9	551.3	639.3	727.4	635.5	558.9	558.9	570.4
62.5°	2587.9	1462.4	555.1	455.6	474.7	551.3	647.0	574.2	532.1	574.2	581.9
65°	880.5	631.7	402.0	363.7	375.2	455.6	555.1	581.9	578.1	604.9	620.2
67.5°	493.8	405.8	336.9	302.4	294.8	336.9	455.6	581.9	558.9	547.4	555.1
70°	417.3	344.5	298.6	268.0	256.5	271.8	352.2	440.2	394.3	382.8	375.2
72.5°	336.9	287.1	260.3	241.2	206.7	176.1	160.8	168.4	187.6	199.1	218.2
75°	237.3	218.2	218.2	195.2	149.3	111.0	88.0	72.7	49.8	34.5	38.3
77.5°	134.0	134.0	137.8	118.7	95.7	72.7	53.6	38.3	19.1	7.7	3.8
80°	91.9	99.5	107.2	95.7	80.4	65.1	45.9	26.8	11.5	0.0	0.0
82.5°	91.9	103.4	111.0	95.7	80.4	61.3	45.9	26.8	11.5	3.8	0.0
85°	19.1	23.0	26.8	30.6	45.9	45.9	34.5	23.0	11.5	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)